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1.

IDENTIFICATION OF A CULTURE MEDIUM COMPONENT BASED ON PARAMETERS OF MEDIUM COMPONENTS

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MEASURE FIRST INDICIA OF A PROPERTY OF A FIRST PLURALITY
OF CULTURE MEDIA WHICH EACH CONTAINS A FIRST TEST
COMPOUND CHOSEN FORM A FIRST TEST LIBRARY BASED ON
A SPACE-FILLING TECHNIQUE

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DETERMINE RELATIONSHIP BETWEEN AT LEAST ONE PARAMETER OF THE FIRST TEST COMPOUNDS AND THE MEASURED INDICIA OF THE PROPERTY, WHERE THE RELATIONSHIP IS REPRESENTED BY $\hat{y}_i = f(x_{ij})$, WHERE, x_{ij} DENOTES A PARAMETER, I RANGES FROM 1 TO n WHERE n REPRESENTS THE NUMBER OF FIRST CULTURE MEDIA IN THE PLURALITY THEREOF, J RANGES FROM 1 TO d WHERE d REPRESENTS THE NUMBER OF PARAMETERS, AND \hat{y}_i REPRESENTS AN ESTIMATE OF THE MEASURED FIRST INDICIA OF THE PROPERTY OF THE PLURALITY OF FIRST CULTURE MEDIA

106

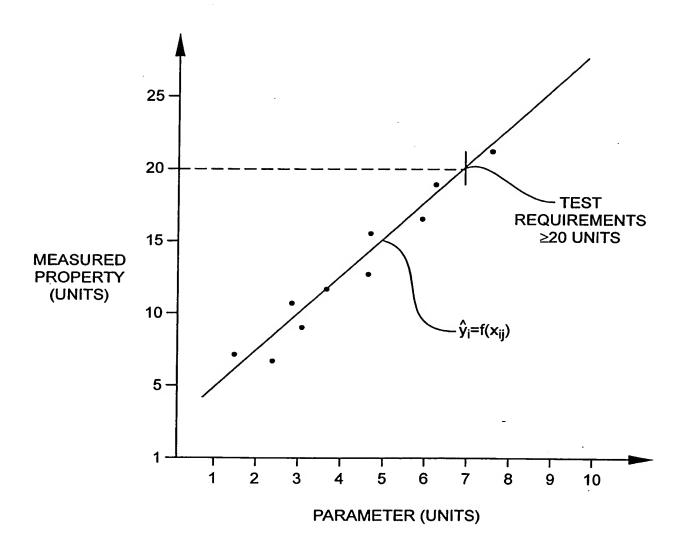
DETERMINE A TEST MEASUREMENT RELATING TO THE MEASURED FIRST INDICIA

108

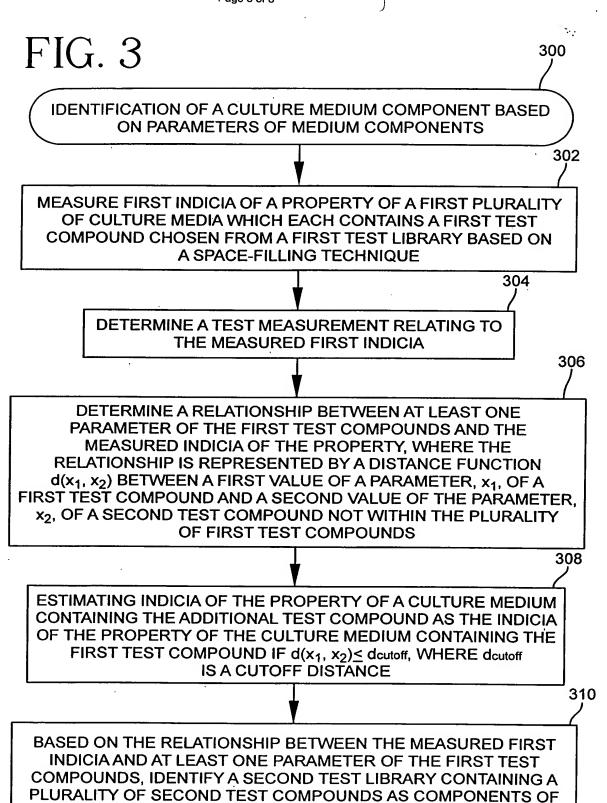
BASED ON THE RELATIONSHIP BETWEEN THE MEASURED FIRST INDICIA AND AT LEAST ONE PARAMETER OF THE FIRST TEST COMPOUNDS, IDENTIFY A SECOND TEST LIBRARY CONTAINING A PLURALITY OF SECOND TEST COMPOUNDS AS COMPONENTS OF A PLURALITY OF SECOND CULTURE MEDIA WHICH ARE EACH PREDICTED TO PROVIDE INDICIA OF THE PROPERTY THAT SATISFIES THE TEST REQUIREMENT

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FIG. 2

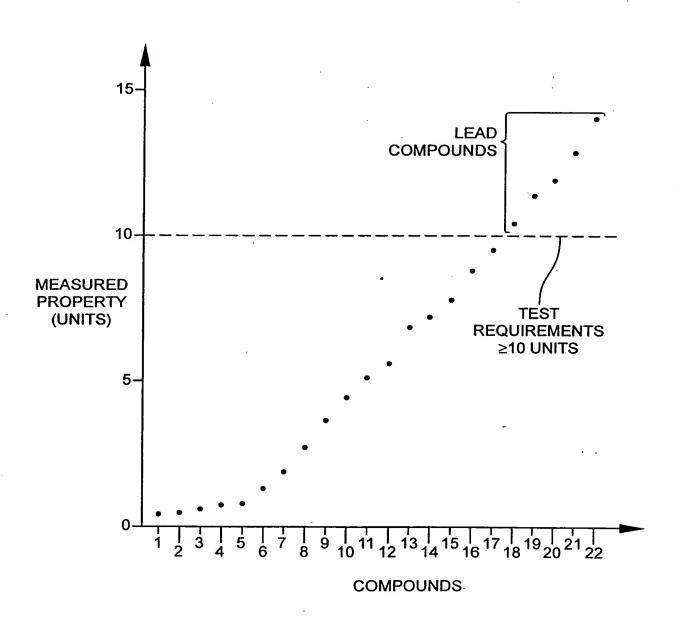


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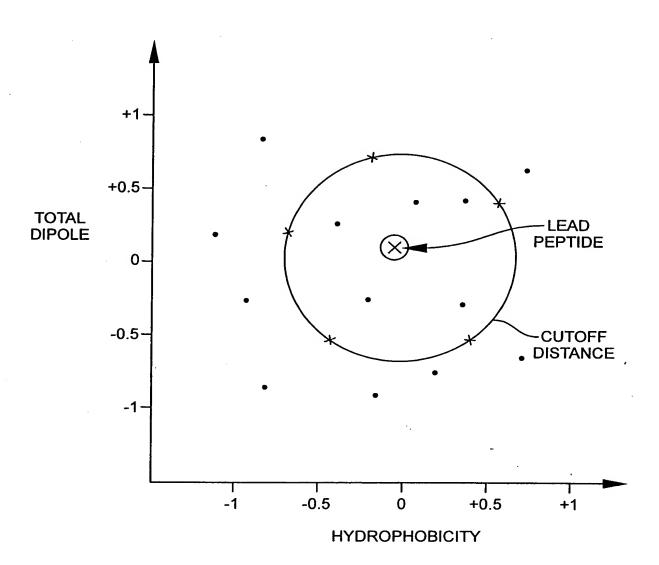
A PLURALITY OF SECOND CULTURE MEDIA WHICH ARE EACH PREDICTED TO PROVIDE INDICIA OF THE PROPERTY THAT SATISFIES THE TEST REQUIREMENT

FIG. 4A

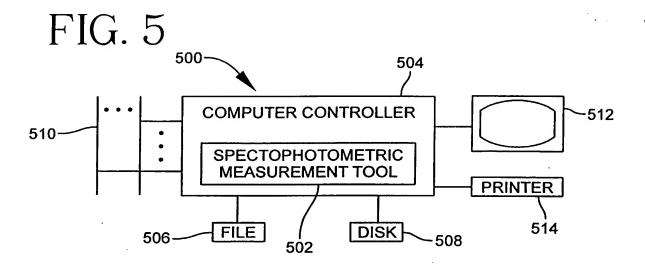


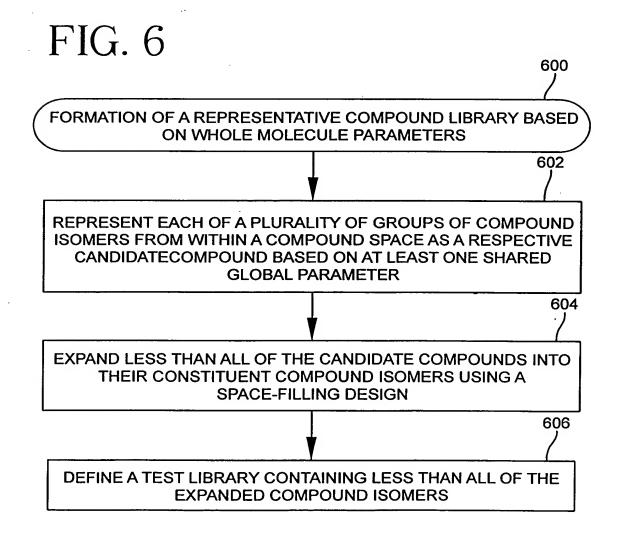
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FIG. 4B



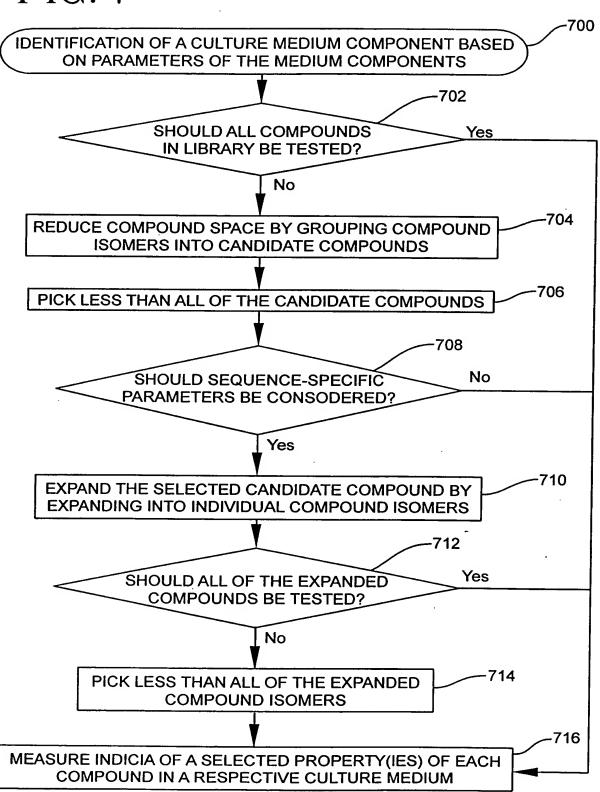
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FIG. 7



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FIG. 8

